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FORM PTO-1449	ATTY. DOCKET NO. I-1-0065.10US	SERIAL NO. 10/663,240
U.S. DEPARTMENT OF COMMERCE  OF EPATENT AND TRADEMARK OFFICE	APPLIC Bolgiano	
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	U.S. PATENT	DOCUMENTS			
DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
4,081,748	03/1978	Batz			
4,099,121	07/1978	Fang			
4,128,809	12/1978	Kage			
4,426,712	01/1984	Gorski-Popiel			
4,530,087	07/1985	Yamamoto			
4,599,734	07/1986	Yamamoto			
4,644,351	02/1987	Zabarsky			
4,675,863	06/1987	Paneth et al.			
4,727,590	02/1988	Kawano et al.			
4,780,885	10/1988	Paul et al.			
4,799,252	01/1989	Eizenhoffer et al.			
4,901,307	02/1990	Gilhousen et al.			
5,031,193	07/1991	Atkinson et al.			
5,043,736	08/1991	Darnell et al.			
5,046,066	09/1991	Messenger			
5,058,200	10/1991	Huang et al.			
5,081,641	01/1992	Kotzin et al.			
5,081,643	01/1992	Schilling			
5,088,108	02/1992	Uddenfeldt et al.			
5,097,484	03/1992	Akaiwa			
5,101,501	03/1992	Gilhousen et al.			
5,103,459	04/1992	Gilhousen et al.			
5,109,390	04/1992	Gilhousen et al.			
5,124,915	06/1992	Krenzel	1		
5,128,925	07/1992	Dornstetter et al.			
	4,081,748 4,099,121 4,128,809 4,426,712 4,530,087 4,599,734 4,644,351 4,675,863 4,727,589 4,780,885 4,799,252 4,901,307 5,031,193 5,043,736 5,046,066 5,058,200 5,081,641 5,081,641 5,081,643 5,088,108 5,097,484 5,101,501 5,103,459 5,109,390 5,124,915	DOCUMENT NUMBER   DATE   4,081,748   03/1978   4,081,748   03/1978   4,128,809   12/1978   4,128,809   12/1978   4,426,712   01/1984   4,530,087   07/1985   4,599,734   07/1986   4,644,351   02/1987   4,675,863   06/1987   4,727,590   02/1988   4,780,885   10/1988   4,780,252   01/1989   4,901,307   02/1990   5,031,193   07/1991   5,043,736   08/1991   5,046,066   09/1991   5,058,200   10/1999   5,081,643   01/1992   5,081,643   01/1992   5,097,484   03/1992   5,101,501   03/1992   5,103,459   04/1992   5,109,390   04/1992   5,109,390   04/1992   5,124,915   06/1992   5,124,915   06/1992   5,124,915   06/1992   5,124,915   06/1992	4,081,748 03/1978 Batz 4,099,121 07/1978 Fang 4,128,809 12/1978 Kage 4,426,712 01/1984 Gorski-Popiel 4,530,087 07/1985 Yamamoto 4,599,734 07/1986 Yamamoto 4,599,734 07/1986 Paneth et al. 4,675,863 06/1987 Paneth et al. 4,727,590 02/1988 Kawano et al. 4,780,885 10/1988 Paul et al. 4,780,885 10/1988 Paul et al. 4,799,252 01/1989 Eizenhoffer et al. 6,031,193 07/1991 Alkinson et al. 5,031,193 07/1991 Darnell et al. 5,043,736 08/1991 Darnell et al. 5,048,641 01/1992 Kotzin et al. 5,081,641 01/1992 Schilling 5,088,108 02/1992 Uddenfeldt et al. 5,097,484 03/1992 Gilhousen et al. 5,101,501 03/1992 Gilhousen et al. 5,103,459 04/1992 Gilhousen et al.	DOCUMENT NUMBER   DATE   NAME   CLASS	DOCUMENT NUMBER   DATE   MAME   CLASS   SURCLASS

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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	APPLIC Bolgiano			
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(Use several sheets if necessary)				

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/RW/	5,155,689	10/1992	Wortham			
	5,166,951	11/1992	Schilling			
	5,177,765	1/5/1993	Holland et al.			
	5,193,101	09/1993	McDonald et al.			
	5,203,018	04/1993	Hirose			
	5,208,756	05/1993	Song			
	5,214,789	05/1993	George			
	5,218,367	06/1993	Sheffer et al.			
	5,218,618	06/1993	Sagey			
	5,223,844	06/1993	Mansell et al.			
	5,227,802	07/1993	Pullman			
	5,235,633	08/1993	Nass et al.			
	5,247,356	09/1993	Ciampa			
	5,260,943	11/1993	Comroe et al.			
	5,260,967	11/1993	Schilling			
	5,280,472	01/1994	Gilhousen et al.			
	5,283,767	02/1994	McCoy			
	5,289,499	02/1994	Weerackody			
	5,289,527	02/1994	Tiedemann, Jr.			
11	5,293,645	03/1994	Sood et al.1	1		
	5,305,353	04/1994	Weerackody			
11	5,321,696	04/1994	Buchholz et al.			
	5,323,384	06/1994	Norwood	1		
	5,345,467	09/1994	Lomp et al.			
	5,347,535	09/1994	Karasawa et al.			
V	5,365,516	11/1994	Jandrell			

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	FILING DATE September 16, 2003	GROUP 2419
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EXAMI	NER AL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/R	W/	5,367,539	11/1994	Copley	1		
П		5,371,734	12/1994	Fischer			
7		5,371,780	12/1994	Amitay			
		5,373,502	12/1994	Turban			
1		5,420,883	05/1995	Swensen et al.			
1		5,430,769	07/1995	Patsiokas et al.			
٦		5,442,625	08/1995	Gitlin et al.			
1		5,479,448	12/1995	Seshadri			
1		5,481,533	1/1996	Honig et al.			
		5,483,244	01/1996	Grube et al.			
1		5,483,668	01/1996	Malkamaki et al.			
T		5,506,863	4/9/1996	Meidan et al.			
1		5,513,176	04/1996	Dean et al.	1		
-		5,533,011	07/1996	Dean et al.			
1		5,533,013	07/1996	Leppanen			
1		5,553,076	9/3/1996	Behtash et al.			
1		5,584,057	12/1996	Dent			
		5,594,737	01/1997	Pillekamp et al.7			
		5,614,914	03/1997	Bolgiano et al.			
T		5,625,876	04/1997	Gilhousen et al.			
T		5,663,990	09/1997	Bolgiano et al.			
1		5,684,793	11/1997	Kiema et al.			
T		5,748,669	05/1998	Yada			
T		5,761,196	6/2/1998	Ayerst et al.			
1		5,781,541	07/1998	Schnieder			
V	/	5,859,879	01/1999	Bolgiano et al.			

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(Use several sheets if necessary)		

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING	DATE IF OPRIATE
/RW/		5,881,094	03/1999	Schilling				
	*	5,068,916	11/1991	Harrison et al.				
V	•	5,164,942	11/1992	Kamerman et al.				
-		FC	REIGN PATE	ENT DOCUMENTS				
EXAMINER							TRAN	SLATION
INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
/RW/		0528090	02/1993	EP				
		2237706	05/1991	GB				
		2259430	03/1993	GB				
		H01-314443	12/1989	JP			Х**	
		H02-302133	06/1992	JP			Х	
Ш		S63-286027	11/1988	JP			Х	
	*	S63-286072	11/1988	JP			х••	
		S63-274236	11/1988	JP			X**	
	٠	06-244814	09/1994	JP			х••	
		H05-244051	09/1993	JP			Х**	
		H03-235077	10/1991	JP				
		H03-177669	08/1991	JP			Х	
	-	S53-109328	08/1978	JP			Х	
		H06-097914	04/1994	JP			X**	
		S63-065723	09/1989	JP			Х	
		H02-3007	01/1990	JP			Х	
		H05-211470	08/1993	Jb <sub>s</sub>			X**	
		H04-502844	08/1993	JP3			х	
		H06-501349	01/1992	JP <sup>5</sup>	1		х	
V		199210890	06/1992	wo				
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation if not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation is not in conformance with MPEP 609; Draw line through citation

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(Use several sheets if necessary)		

EXAMINER								TRAN	ISLATION
INITL	AL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
/R	W.		199306669	04/1993	WO				
	Γ	•	199939455	08/1999	WO10				
	Γ		199107036	05/1991	WO <sup>4</sup>				
	Г		199200639	01/1992	MO <sub>6</sub>				
	Г		199608908	03/1996	WO8				
1	7	•	199833346	07/1998	WO9				

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INITIAL			DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
/RW/		į	'Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System', TIA/EIA/IS-95-A, TIA Interim Standard, (May 1995).
			*Ultraphone, System Description GP110,* InterDigital Communications Corporation, pgs. 1-17, (October 1993).
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			AZAD ET AL., "Multirate Spread Spectrum Direct Sequence CDMA Techniques", The Institution of Electrical Engineers, pp. 4/1-4/5 (1994).
			BLANZ ET AL., 'Performance of a Cellular Hybrid C/TDMA Mobile Radio System Applying Detection and Coherent Receiver Antenna Diversity, IEEE, pgs. 568-579, (May 1994).
			ERCEG ET AL., "Urban/Suburban Out-of-Sight Propagation Modeling," IEEE Communications Magazine, pgs. 56-61, (June 1992).
			ESMAILZADEH ET AL., 'Direct Sequence Spread Spectrum Communication in Selection Diversity Channels by Time Division Duplex Technique,' IEEE, pgs. 345-348, (1992).
1	/		ESMAILZADEH ET AL., "Quasi-Synchronous Time Division Duplex CDMA", IEEE, pgs. 1637-1641, (1994).

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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)	
/RW/	ESMAILZADEH ET AL., "Time Division Duplex Transmission of Direct Sequence Spread Spectrum Signals in Multipath Channels", IEEE, pgs. 1572-1576, (1994).	
	GERLACH ET AL., "Base Station Transmitter Antenna Arrays With Mobile to Base Feedback", IEEE 1993 Conference Record of the Twenty-Seventh Asilomar Conference on Signals, Systems, and Computers, Vol. 2 pgs. 1432-1436, (November 1993).	
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	KAUFMANN ET AL, "Digital Spread-Spectrum Multipath-Diversity Receiver for Indoor Communications," IEEE, pgs. 1038-1041, (1992).	
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	KUBOTA ET AL., "A Time Diversity CDMA Scheme Employing Orthogonal Modulation for Time Varying Channels," IEEE 43 <sup>rd</sup> Vehicular Technology Conference, pp. 444-447 (May 20, 1993).	
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$\downarrow$	SCHILLING ET AL., 'Spread Spectrum for Commercial Communications,' IEEE Communications Magazine, Vol. 29, Issue 4, pgs. 66-79, (April 1991).	

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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)  SESHADRI ET AL., 'Two Signaling Schemes For Improving The Error Performance Of Frequency-Division- Duplex (FDD) Transmission Systems Using Transmitter Antenna Diversity,' Secaucus, NJ, New York, IEEE, US, pgs 508-611, (May 18, 1993).	
/RW/		
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/Robert Wilson/	DATE CONSIDERED 04/28/2009
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